Hewlett Packard
Enterprise

HPE 7.68TB SAS 12G READ INTENSIVE SFF SC VALUE SAS MULTI VENDOR SSD (P37003-H21)

Server Solid State Drives

WHAT'S NEW

- HPE 960 GB, 1.92 TB, 3.84 TB, 7.68 TB SAS 12G Read Intensive SFF, BC, Value SAS, Multi Vendor SSDs
- Move data at speeds up to 12 Gb, twice as fast as 6 Gb SATA SSDs
- Lower cost than enterprise 12 Gb SAS

OVERVIEW

Do you need to accelerate the performance of your read intensive applications?

HPE 12 Gb Value SAS Read Intensive (RI) SSDs optimize your enterprise with faster data transfer rates and near price parity compared to enterprise 6 Gb SATA SSDs. HPE Value SAS RI

SSDs
- Enterprise alternative to NVMe Mainstream SSDs
- Single-ported version of enterprise 12 Gb SAS SSDs
- Presented as an HPE Multi Vendor SKU offering

SSDs deliver enterprise features at an affordable price for applications requiring high random read IOPS performance, and are ideal for read caching, social media and web servers workloads.

HPE 12 Gb Value SAS RI SSDs transfer data at full duplex (bidirectional) allowing greater I/O bandwidth to alleviate bottlenecks at twice the 6 Gb interface of SATA SSDs. A single-ported version of enterprise 12 Gb SAS, HPE Value SAS RI SSDs provide slightly reduced performance in exchange for being price competitive to 6 Gb SATA SSDs.

HPE 12 Gb Value SAS RI SSDs are presented as an HPE Multi Vendor SKU offering which provides customers with the shortest lead time to available supply on preferably priced HPE Value SAS RI SSDs.

FEATURES

Value SAS SSDs Deliver Twice the Interface Speed of SATA SSDs at a Lower Cost than SAS SSDs

HPE Value SAS Solid State Drives support full-duplex 12 Gb, versus SATA SSDs that are bottlenecked by the simplex 6 Gb SATA interface specification.

Featuring similar price points to 6 Gb SATA SSDs and capacities ranging from 960 GB to 7.68 TB, HPE 12 Gb Value SAS RI SSDs deliver significantly more performance per dollar and are designed to easily replace enterprise SATA SSDs in server applications.

HPE Value SAS SSDs offer a significant random IOPS performance boost over 6 Gb SATA SSDs with 1.94x [1] more random read IOPS and 1.75x [1] more random mixed IOPS performance.

HPE Value SAS SSDs also deliver sequential bandwidth performance gains of 1.5x [1] more read bandwidth and 1.27x [1] more write bandwidth than SATA SSDs.

Value SAS SSDs Run More Data Analytic Workloads in Less Time and with Lower Latency than SATA SSDs

HPE Value SAS Solid State Drives offer faster connection rates that can improve the performance of decision support system applications than SATA SSDs.

Value SAS SSDs deliver faster, lower latency storage performance than 6 Gb SATA SSDs which enables data retrieval sooner with up to 25% [2] less time needed to complete query sets than SATA SSDs.

Value SAS SSDs save time executing data analytic workloads with up to 30% [2] lower read latency needed to access and pull data compared to 6 Gb SATA SSDs.

By improving performance at similar price points, Value SAS SSD delivers up to 22% [2] better data analytics performance per dollar than 6Gb SATA SSDs.

HPE Multi Vendor Offering for Value SAS SSDs Help Simplify Purchasing Decisions While Improving TCO

HPE Multi Vendor offering provides shorter lead times to best available HPE 12 Gb Value SAS SSD supply.

Preferable pricing on HPE qualified Value SAS SSDs and extended SKU lifecycles simplifies the procurement process.

Assurance that the HPE Value SAS Solid State Drives selected delivers the minimum performance published or better.

Technical specifications

HPE 7.68TB SAS 12G Read Intensive SFF SC Value SAS Multi Vendor SSD

Product Number (SKU)	P37003-H21
Lifetime Writes	14,000
Endurance DWPD (Drive Writes Per Day)	1
Read IOPS	Random Read IOPS (4KiB, Q=16)=98,000 Max Random Read IOPS (4KiB)=155,000@Q32
Write IOPS	Random Write IOPS (4KiB, Q=16)=36,000 Max Random Write IOPS (4KiB)=37,000@Q4
Power (Watts)	7.68
Plug Type	Hot Pluggable
Height	15 mm
Product Dimensions (metric)	21.92 x 22.86 x 14.61 cm
Weight	0.5 kg
Warranty	HPE Solid State Drives and Add-In Cards have a standard 3/0/0 warranty Customer Self Repair (CSR) subject to maximum usage limitations. Maximum usage limit is the maximum amount of data that can be written to the drive. Drives that have reached this limit will not be eligible for warranty coverage.

Most, if not all IT organizations are on a digital transformation journey — each at a different stage. With over 11,000 IT projects conducted and 1.4 million customer interactions each year, HPE Pointnext Services' 15,000+ experts and its vast ecosystem of solution partners and channel partners are uniquely able to help you at every stage of your digital transformation. We bring together technology and expertise to help you drive your business forward and prepare for whatever is next.

Advisory and Professional Services help you accelerate your digital transformation. Operational Services help you remove complexity and respond rapidly to business demands.

Operational Services from HPE Pointnext Services

HPE Pointnext Tech Care provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

- **HPE Datacenter Care** helps modernize and simplify IT operations. Partner with an assigned account team, access technical expertise, an enhanced call experience gives you priority access, choose hardware and software support, implement proactive monitoring to help stay ahead of issues, and access HPE IT best practices and IP.

- **HPE Proactive Care** offers an enhanced call experience and helps reduce problems with personalized proactive reports and advice. This also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.). Read more

- **HPE Foundation Care** helps when there is a problem and has a choice of response levels. Collaborative software support is included and provides troubleshooting help for ISVs running on your server. Read more.

Other related services

Defective Media Retention is optional and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

HPE Service Credits offers a menu of technical services, access additional resources, and specialist skills.

HPE Education Services delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation.
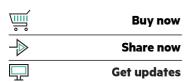
Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

HPE GREENLAKE

HPE Greenlake is HPE's market-leading IT as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

If you are looking for more services, like **IT financing solutions**, please explore them here.

[1] The specified performance capabilities of enterprise SATA and Value SAS SSDs per HPE published SSD QuickSpecs October 2020 comparing the single highest performance specification of any capacity or SKU offering (random mixed performance = 4K Random 70% Read / 30% Write Queue 32 IOPS performance). https://h20195.www2.hpe.com/v2/getdocument.aspx?docname=a00001288enw

[2] From the Principled Technologies® Report entitled, "Make business decisions faster with value SAS and data center NVMe™ SSDs from Toshiba Memory," and available at: principledtechnologies.com/KIOXIA/RM5-Series-value-SAS-and-CD5-NVMe-mainstream-vs-SATA-decision-support-1019-v2.pdf